

FIG.1

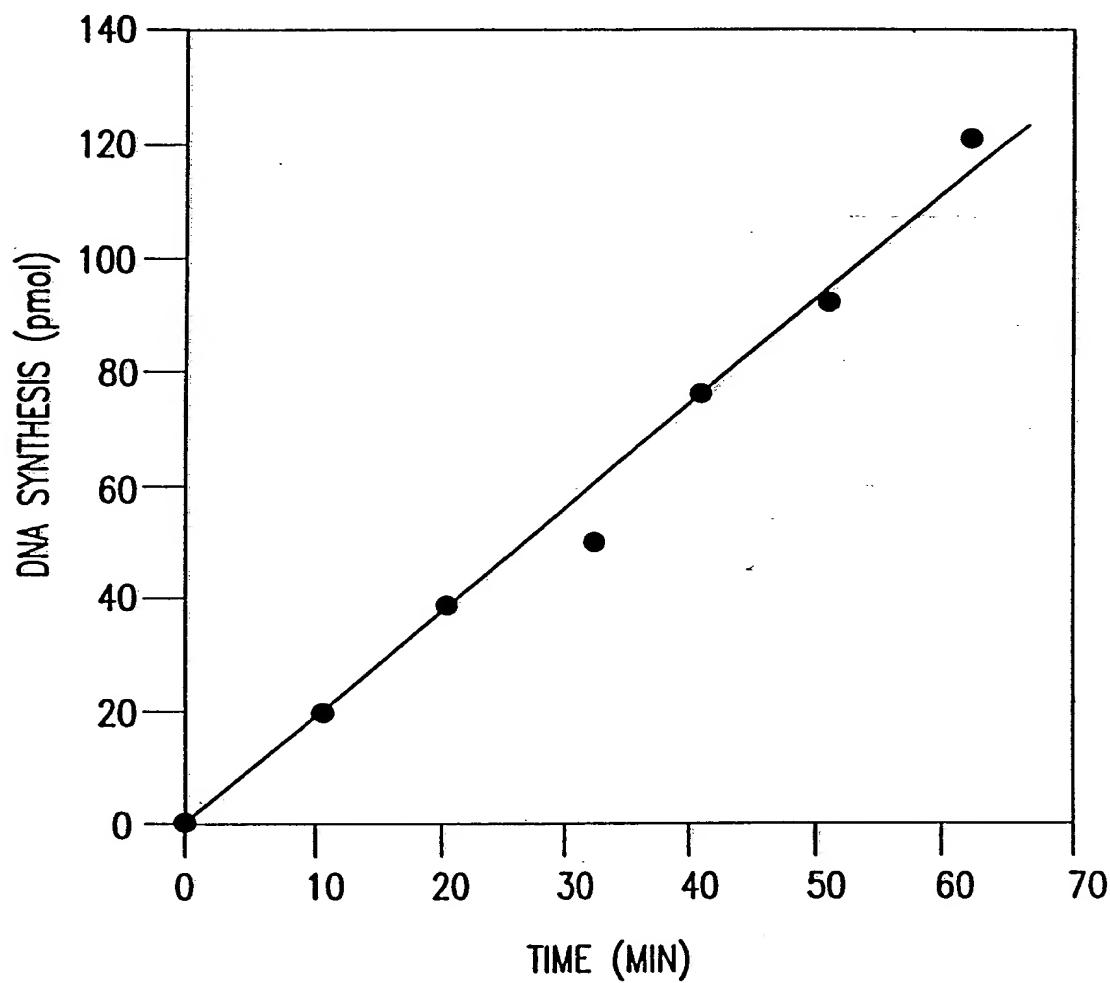


FIG.2

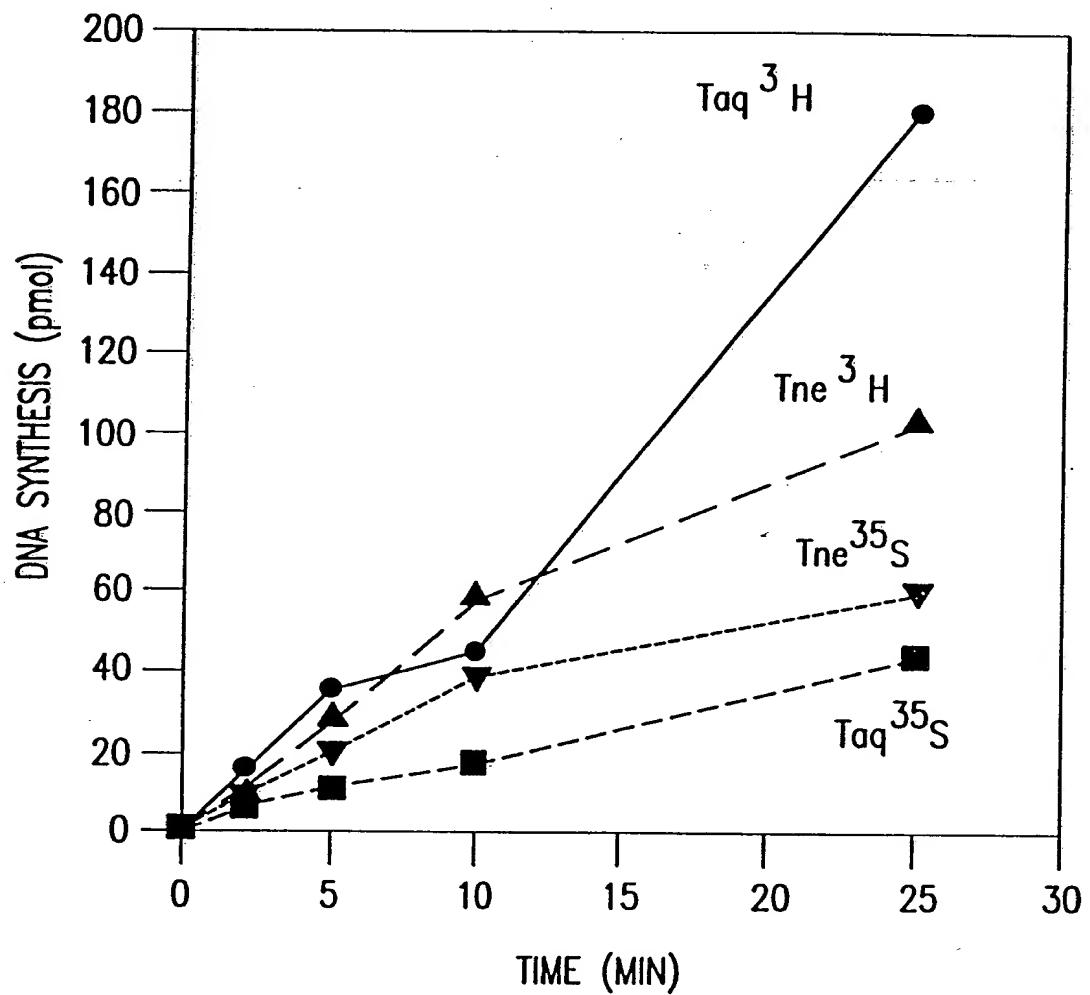


FIG.3

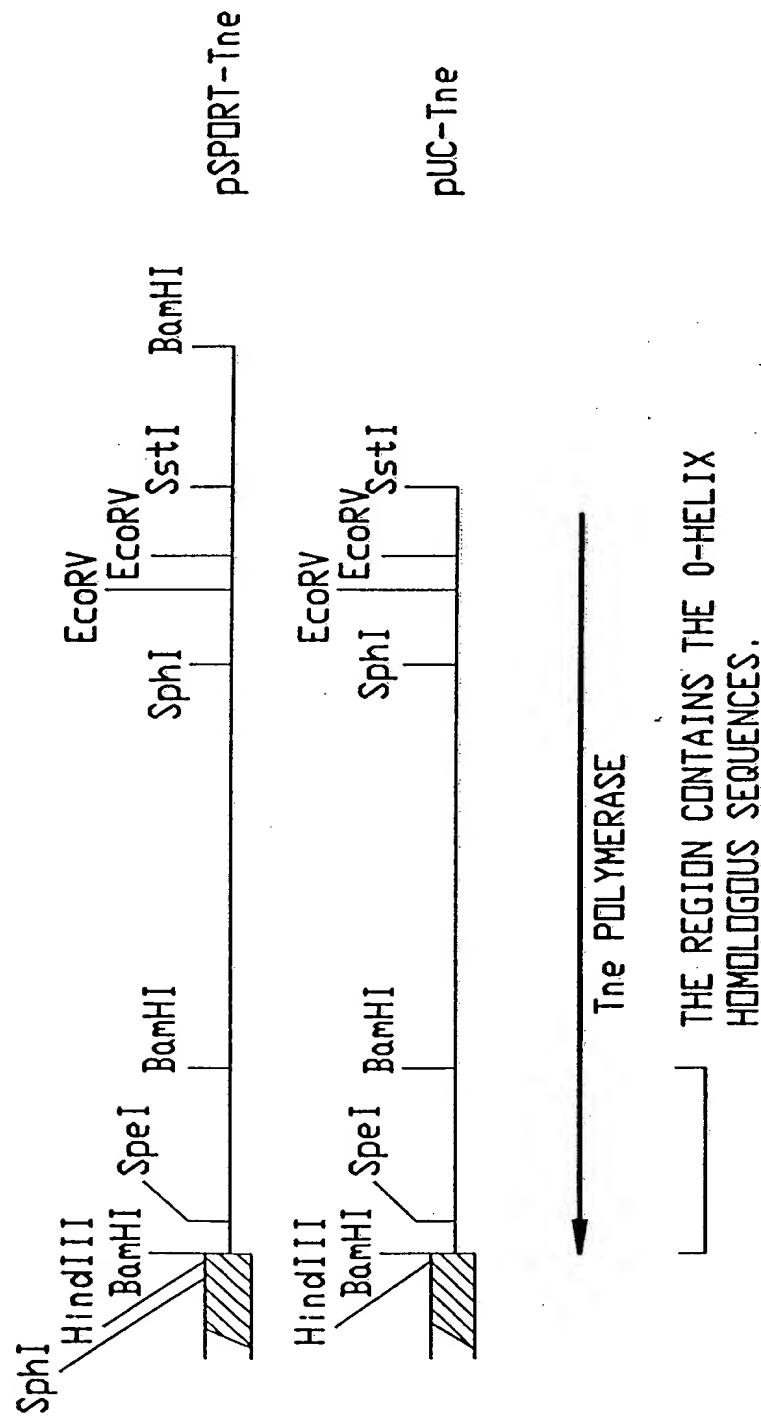


FIG. 4



BamHI

1 GGATCCAGAC TGGTGGATCG TCAGTGGGA TTATTCCCAA ATAGAACTCA GAATCCTCGC
 G S R L V D R Q C G L F P N R T Q N P R
 → D P D W W I V S A D Y S Q I E L R I L
 I Q T G G S S V R I I P K - N S E S S

61 TCATCTCACT CGTGATGAGA ACCTTGTGAA GGCCTTCGAG GAGGGCATCG ATGTGCACAC
 S S Q W - - E P C E G L R G G H R C A H
 → A H L S G D E N L V K A F E E G I D V H
 L I S V V M R T L - R P S R R A S M C T

121 CTTGACTGCC TCCAGGATCT ACAACGTAAGA GCCAGAAGAA GTGAACGAAG AAATGCGACG
 L D C L Q D L Q R K A R R S E R R N A T
 → T L T A S R I Y N V K P E E V N E E M R
 P - L P P G S T T - S Q K K - T K K C D

181 CGTTGAAAG ATGGTGAAC TCTCTATAAT ATACGGTGTG ACACCGTACG GTCTTCTGT
 G W K D G E L L Y N I R C H T V R S F C
 → R V G K M V N (F) S I I Y G V T P Y G L S
 G L E R W - T S L - Y T V S H R T V F L

241 GAGACTTCCA ATACCGGTTA AAGAAGCAGA AAAGATGATT ATCAGCTATT TCACACTGTA
 E T W N T G - R S R K D D Y Q L F H T V
 → V R L G I P V K E A E K M I I S Y F T L
 - D L E Y R L K K Q K R - L S A I S H C

301 TCCAAAGGTG CGAACCTACA TCCACCGAGT TGTGAGAG GCAAAAGAGA AGGGCTACGT
 S K G A K L H P A G C C R G K R E G L R
 → Y P K V R S Y I Q Q V V A E A K E K G Y
 I Q R C E A T S S R L L Q R Q K R R A T

361 CAGGACTCTC TTTGGAACAA AAAGAGATAT TCCCCAGCTC ATGGCAAGGG ACAAGAACAC
 Q D S L W K K K R Y S P A H G K G Q E H
 → V R T L F G R K R D I P Q L M A R D K N
 S G L S L E E K E I F P S S W Q G T R T

421 CCAGTCCGAA GCGCAAAGAA TCGCAATAAA CACCCCCATT CAGGAACTG CGGCAGATAT
 P V R R R K N R N K H P H S G N C G R Y
 → T Q S E G E R I A I N T P I Q G T A A D
 P S P K A K E S Q - T P P F R E L R Q I

FIG.5A



481 AATAAAATTG GCTATGATAG ATATAGACGA GGAGCTGAGA AAAAGAAACA TCAAATCCAG
N K I G Y D R Y R R G A E K K K H E I Q
→ I I K L A M I D I D E E L R K R N M K S
- - N W L - - I - T R S - E K E T - N P

541 AATGATCATT CAGGTTCATG ACCAACTGGT CTTGAGGTT CCCGATGAGG AAAAAGAAGA
N D H S G S - R T G L R G S R - G K R R
→ R M I I Q V H D E L V F E V P D E E K E
E - S F R F M T N W S S R F P M R - K K K

601 ACTAGTTGAT CTGGTGAAGA ACAAAATGAC AAATGGGTG AAACTCTCTG TGCCTCTTGA
T S - S G E E Q N D K C G E T L C A S -
→ E L V D L V K N K M T N V V K L S V P L
N - L I W - R T K - Q M W - - N S L C L L

661 CGTTGACATA ACCATCCGAA AAACCTGGTC TTGA
G - H K H R K K L V L
→ E V D I S I G K S W S -
R L T - A S E K A G L

FIG.5B

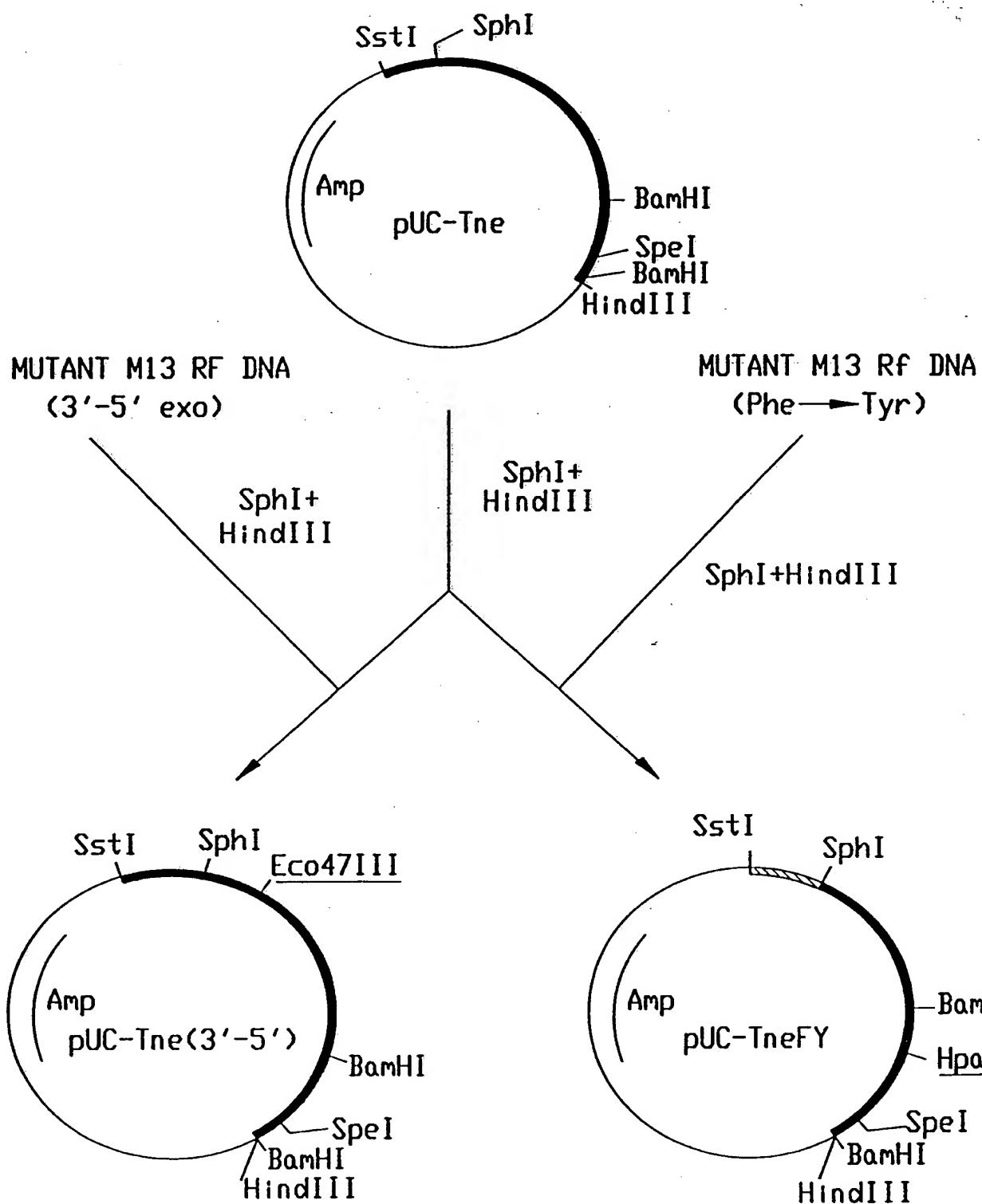


FIG.6A

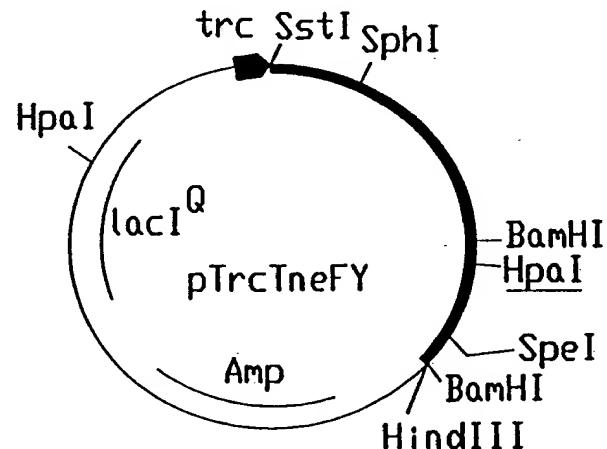
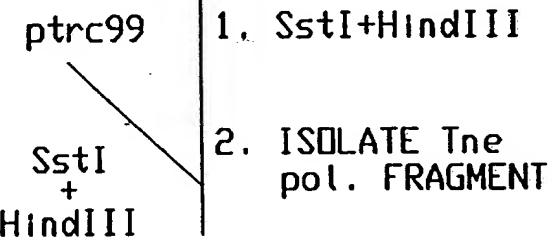
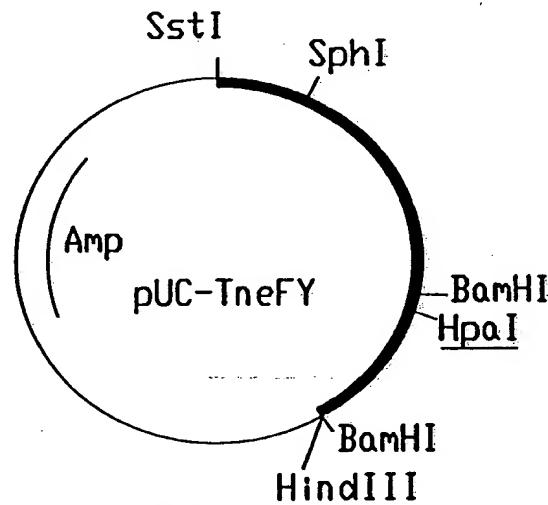
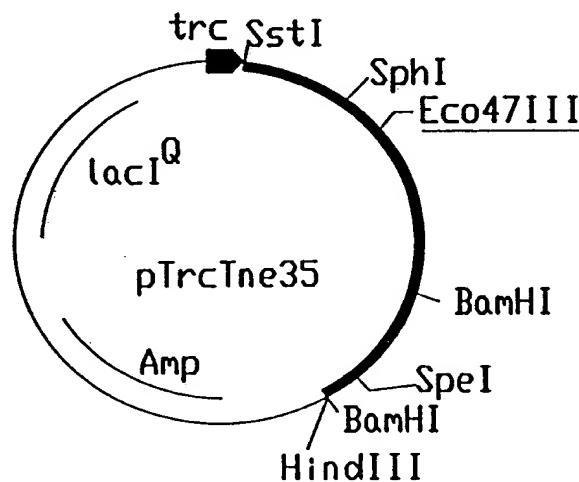
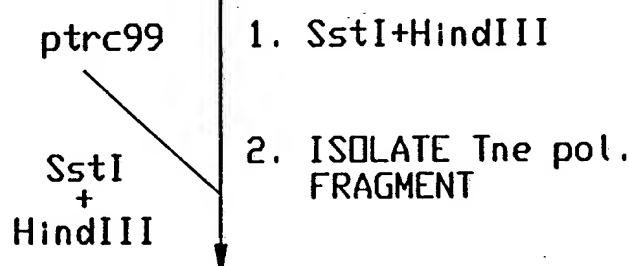
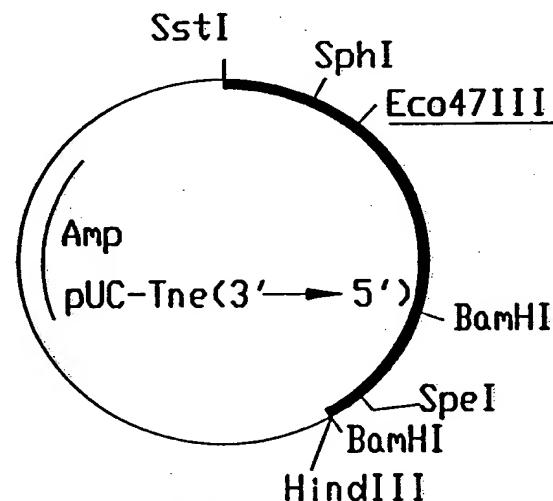
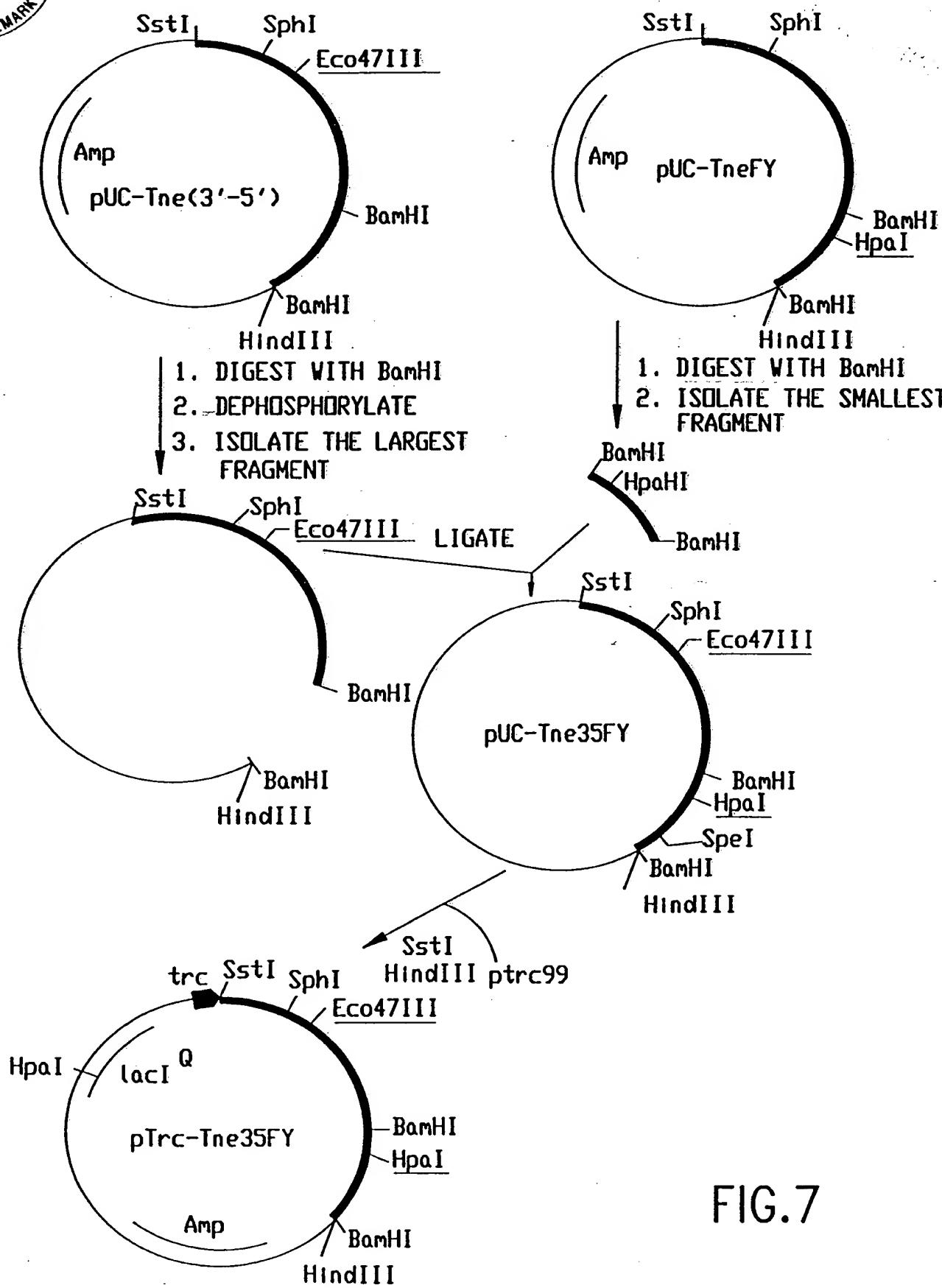


FIG.6B



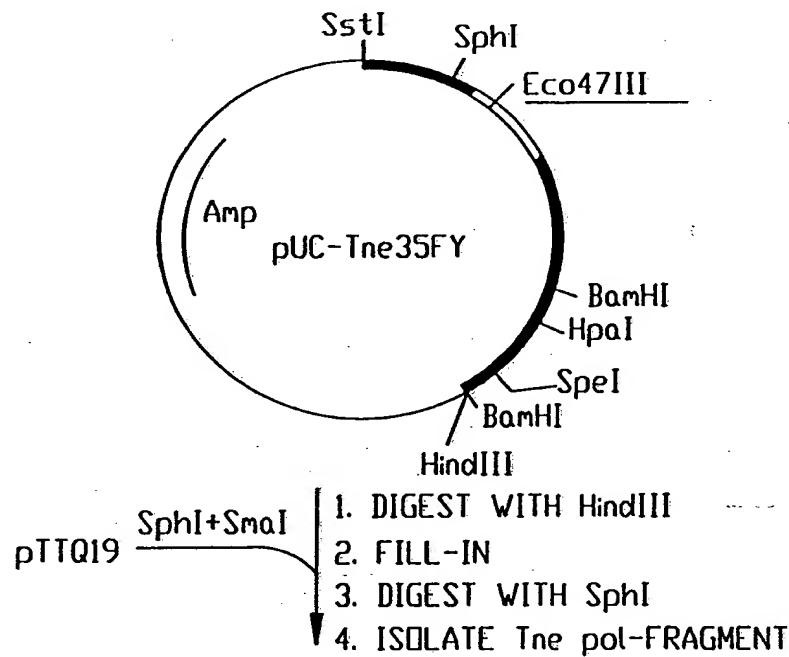
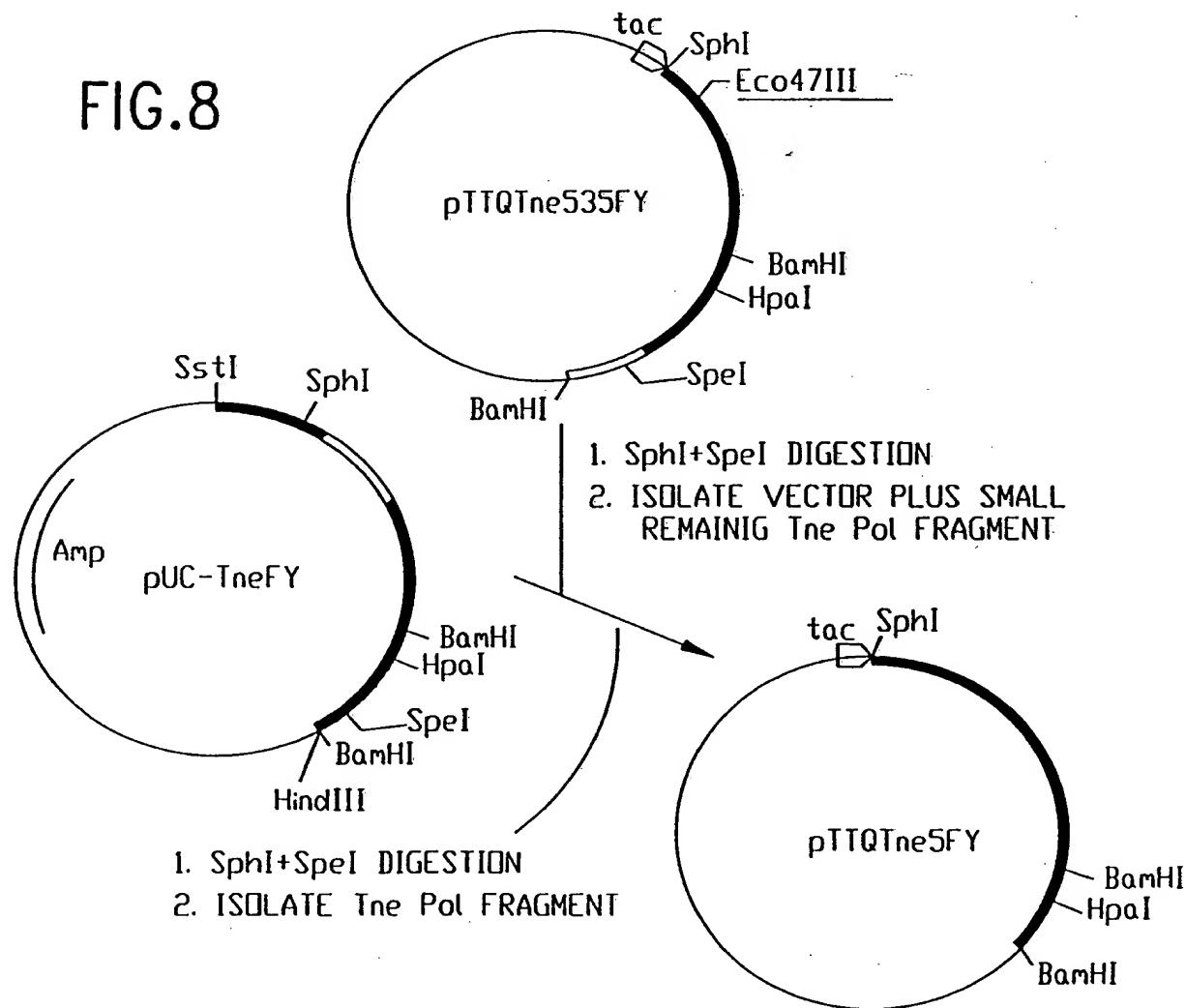


FIG.8





A B
ACGT GATC



FIG.9



FIG.10

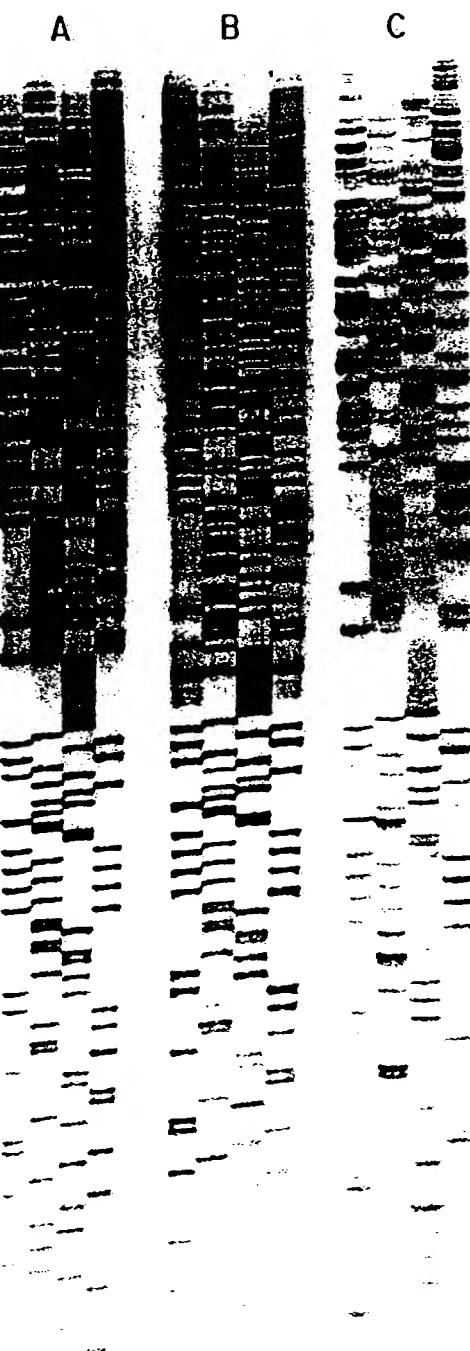


FIG.11

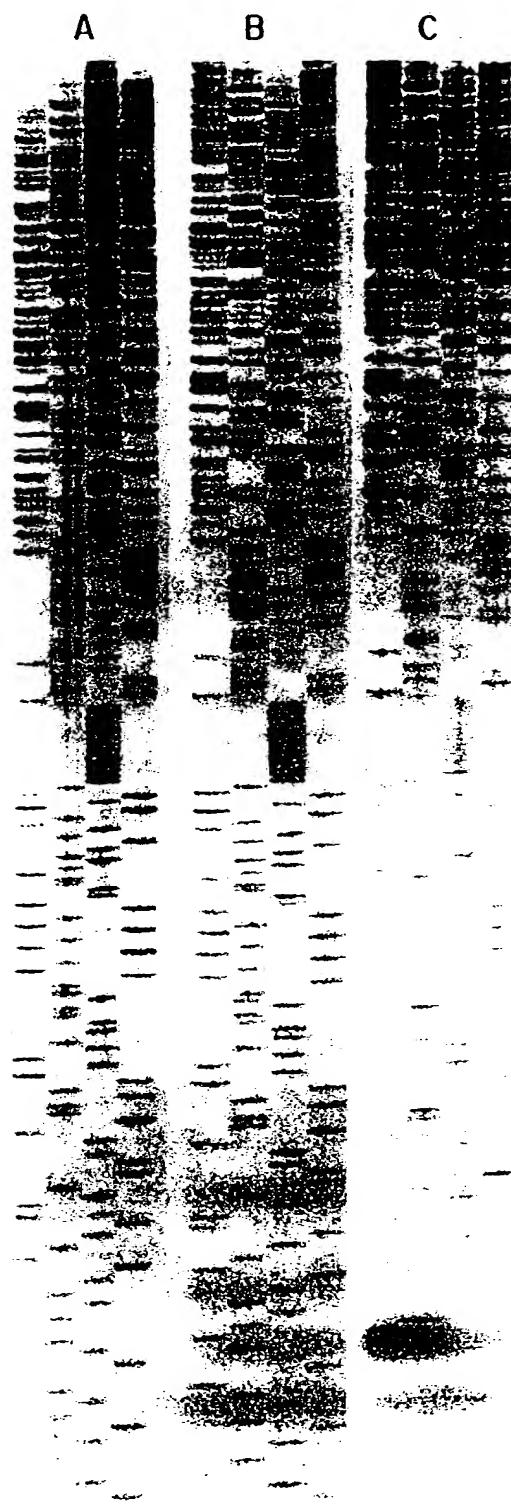


FIG.12

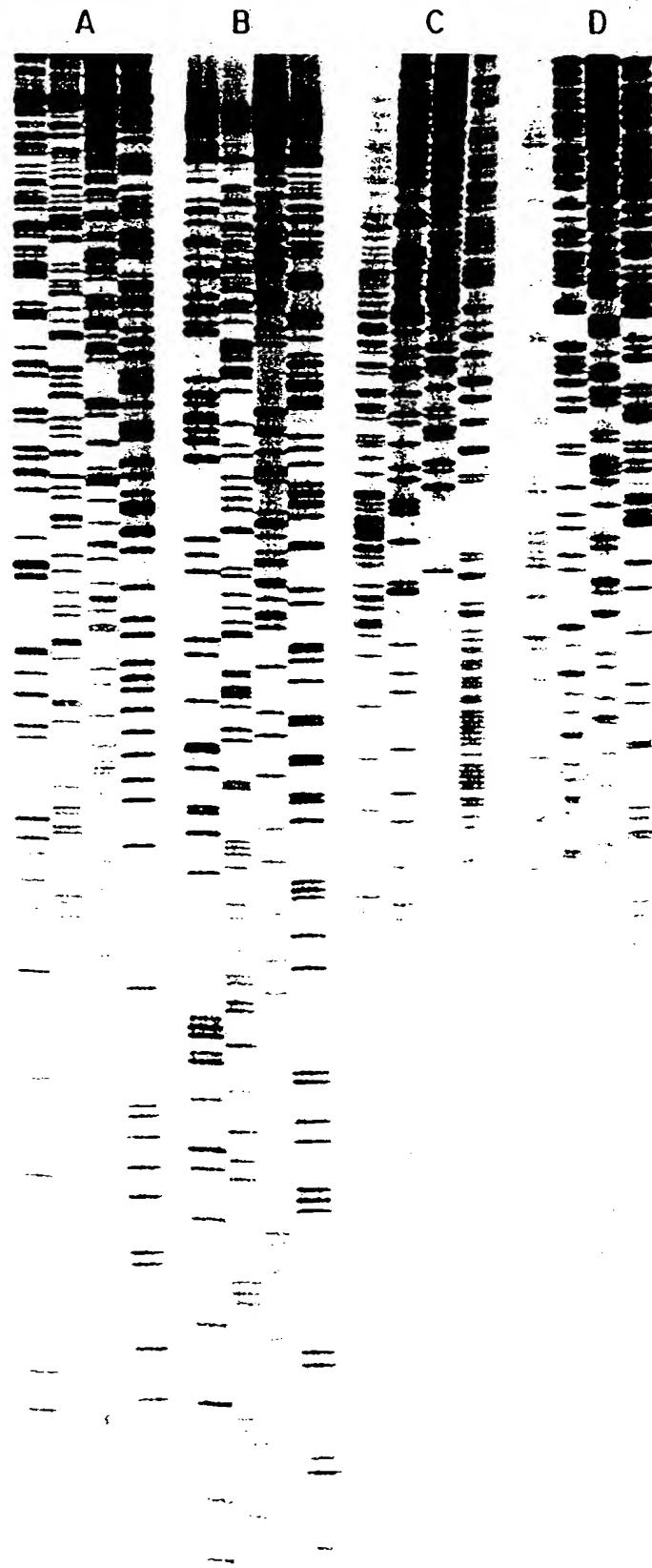


FIG. 13

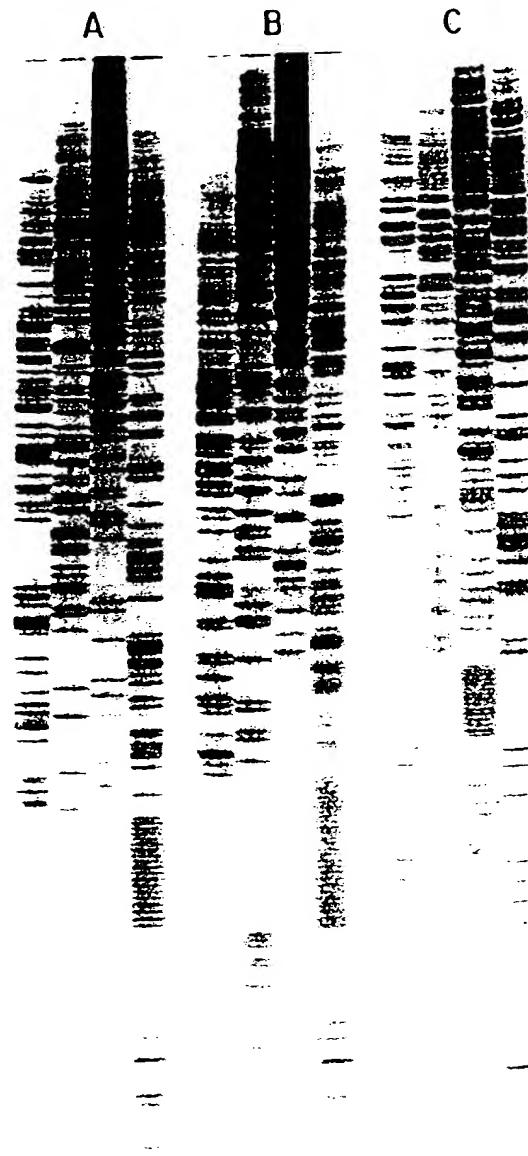


FIG.14A

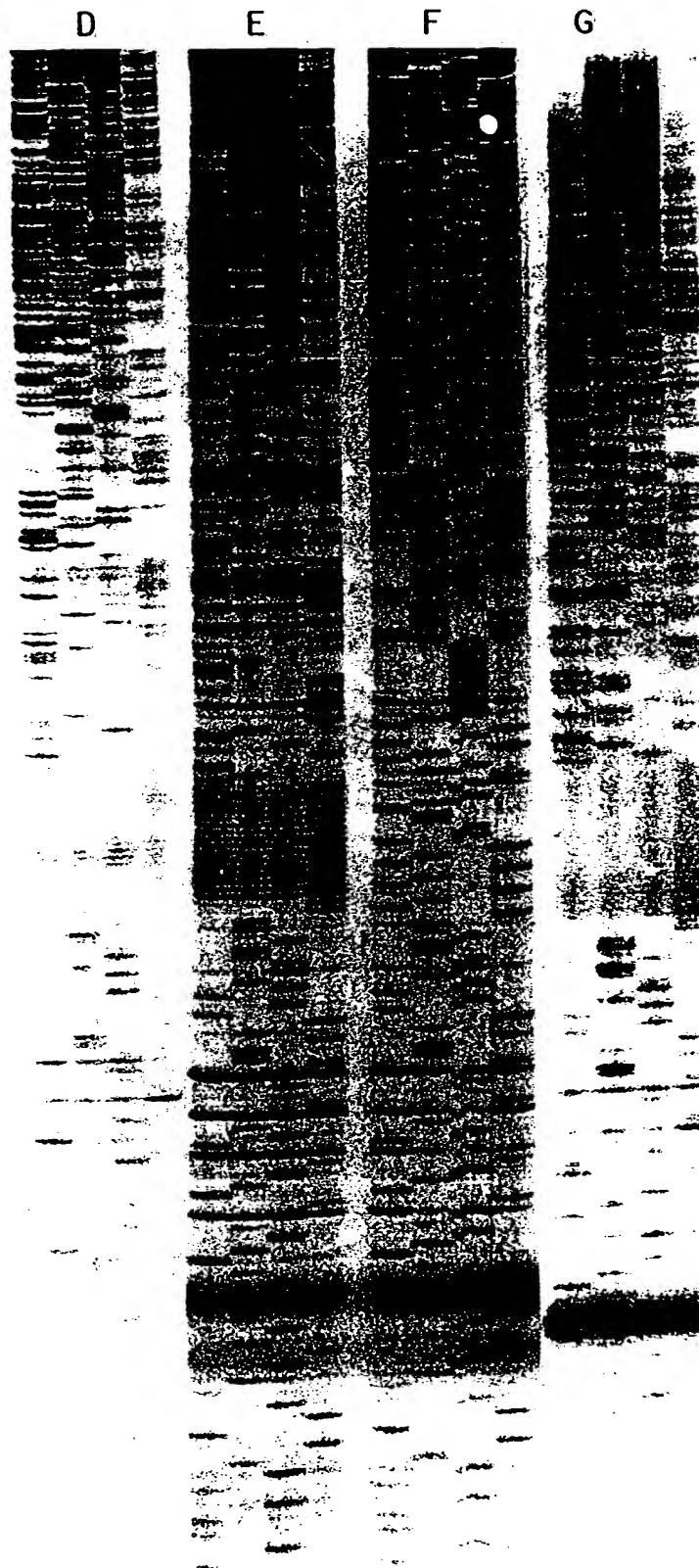
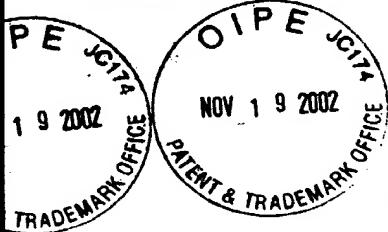


FIG.14B

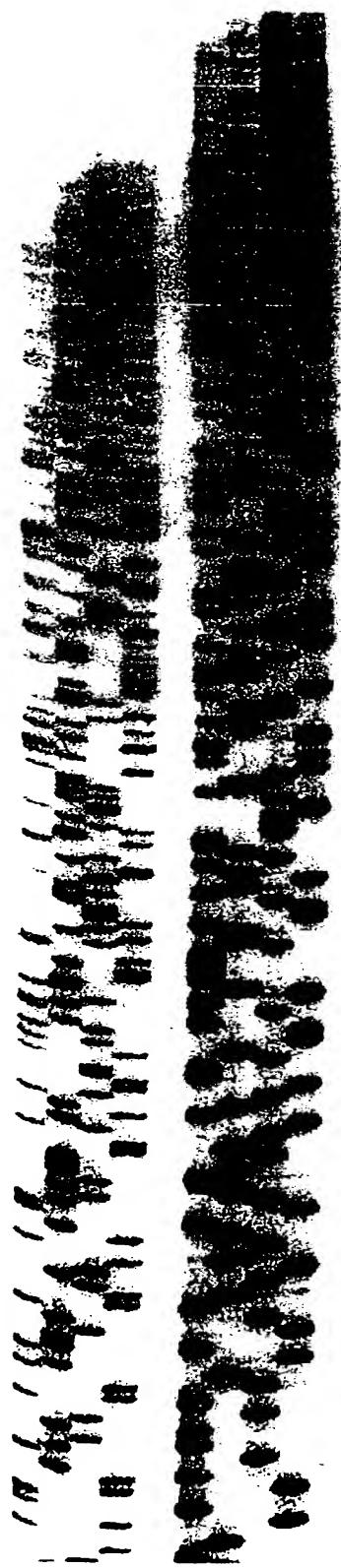


FIG. 15

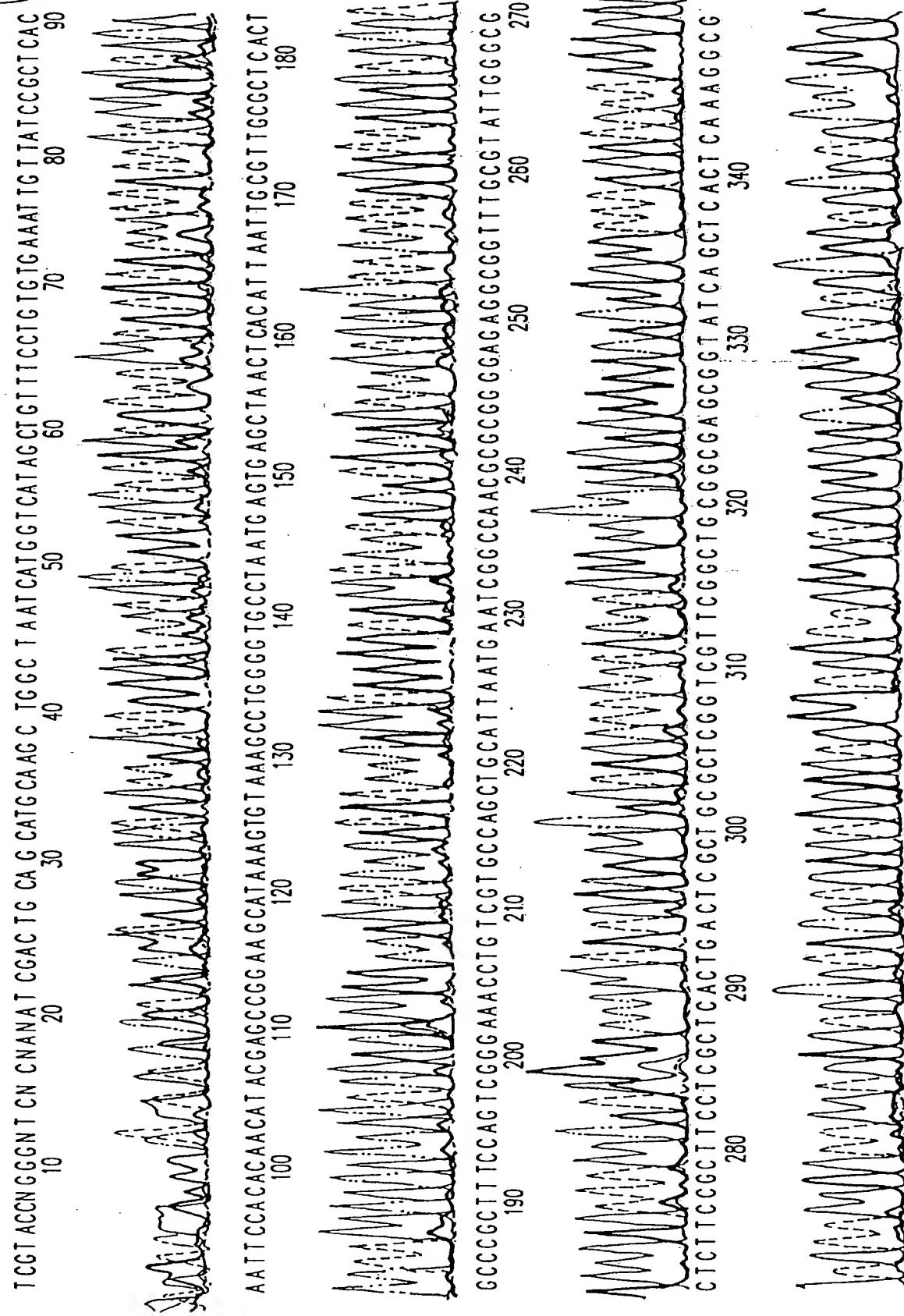


FIG. 16A



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350 G T A A T A C C G G T T A C A G A G A A T C A G G G A T A A C G C A G G A A A G A A C A T G T G A C C A A A G C C A A A G C C
360 370 380 390 400 410

420 C C A G G A A C C G T T A A A A G G C C G T T G C T G G G C G T T T C C A T A G C C T C C G C C C C C T T G A C C A G C C A T C A 420 430 440 450 460 470 480

CAA ATT CG ACC G CT TCA AGT TCA GAG GT GGG CG AA ACC CG A CAG GG ACT AT AA AG ATT ACCA G G G G G TT T TCC CC
490 500 510 520 530 540 550 560

C T G G G A A G C T N C C T T C T G T T C C C G A A C C T G G C C G T T T A A C C G G G A T A C C N G N T C G G C C T T T T N T C C C
570 580 590 600 610 620 630 640

A vertical column of 20 blank, lined squares for handwriting practice. Each square is divided into three horizontal sections: a top section for a capital letter, a middle section for a lowercase letter, and a bottom section for a descender. The columns are evenly spaced and extend from the top to the bottom of the page.

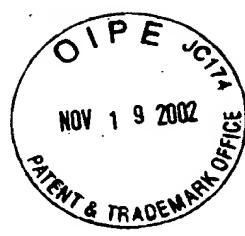
FIG. 16B



C T T N G G G G G A A N C C T T G C C G N T T T T T G N A A A A A N G C T A A G G G T T
650 660 670 680



FIG. 16C



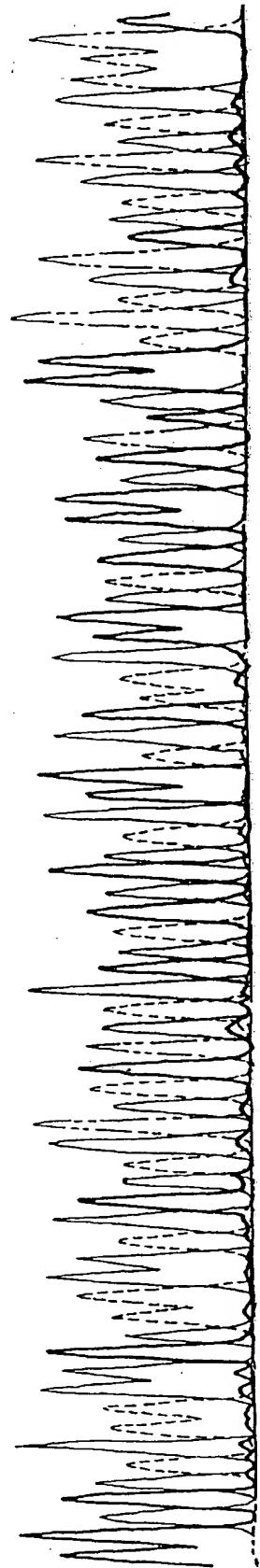
GCCTGGTACGGGGATCTNNNANATCGGACTGCAGCATGGCTAATCATGGTCAAGCTTGGCGT
10 20 30 40 50 60 70 80 90
CACAACTCACAACTACGAGCCGGAAAGCTAAAGTGTAAAGGCCTGGGGTGCCTAAATGAGCTA
100 110 120 130 140 150 160 170 180

CACTGCCGGCTTCCAGTCGGAAACCTGTCGGCCAGCTGCATTAAATGAAATCGGCAACGGCGG
190 200 210 220 230 240 250 260 270
GAGAGCCGGTTGGCTATTC

FIG. 16D



GGGGCTCTTCCGCTTCCTGACTCCCTGCTTCCGGCTGCCGCTTGGCTGGCTTCACTCAAAAC
280 290 300 310 320 330 340 350



GGGGTAAATACGGTTATCCACAGAATCAAGGGATAACGCCAGGAAAGAACATGTGAGCAAAGCCAGCAAA
360 370 380 390 400 410 420

AGGCCAGGAACCCGTTAAAGGCCGGCTTGGCTGGCTTGGCTTCCATAGGCTCCGGCCCCCTGANGACC
430 440 450 460 470 480



FIG. 16E



ATCANA A AAATCGA NGCTC A NGTC A NAGG T GGC G AAC CC G AC A GG NC T ATTAAAG AT NCCAGG CGTTT
490 500 510 520 530 540 550 560



CCCCCC T GGG AAC CT CCC T C GGT C T CCT GG TT NGGG NN CCT G NCCT G GGGAT AAC TT G T TCCGGNC TT T NT
570 580 590 600 610 620 630 640



CCCC T T CNGGG AAAAANGGTGGGG T T T T T NAA AACCTCAA GGCTGGTANG
650 660 670 680 690 700



FIG. 16F

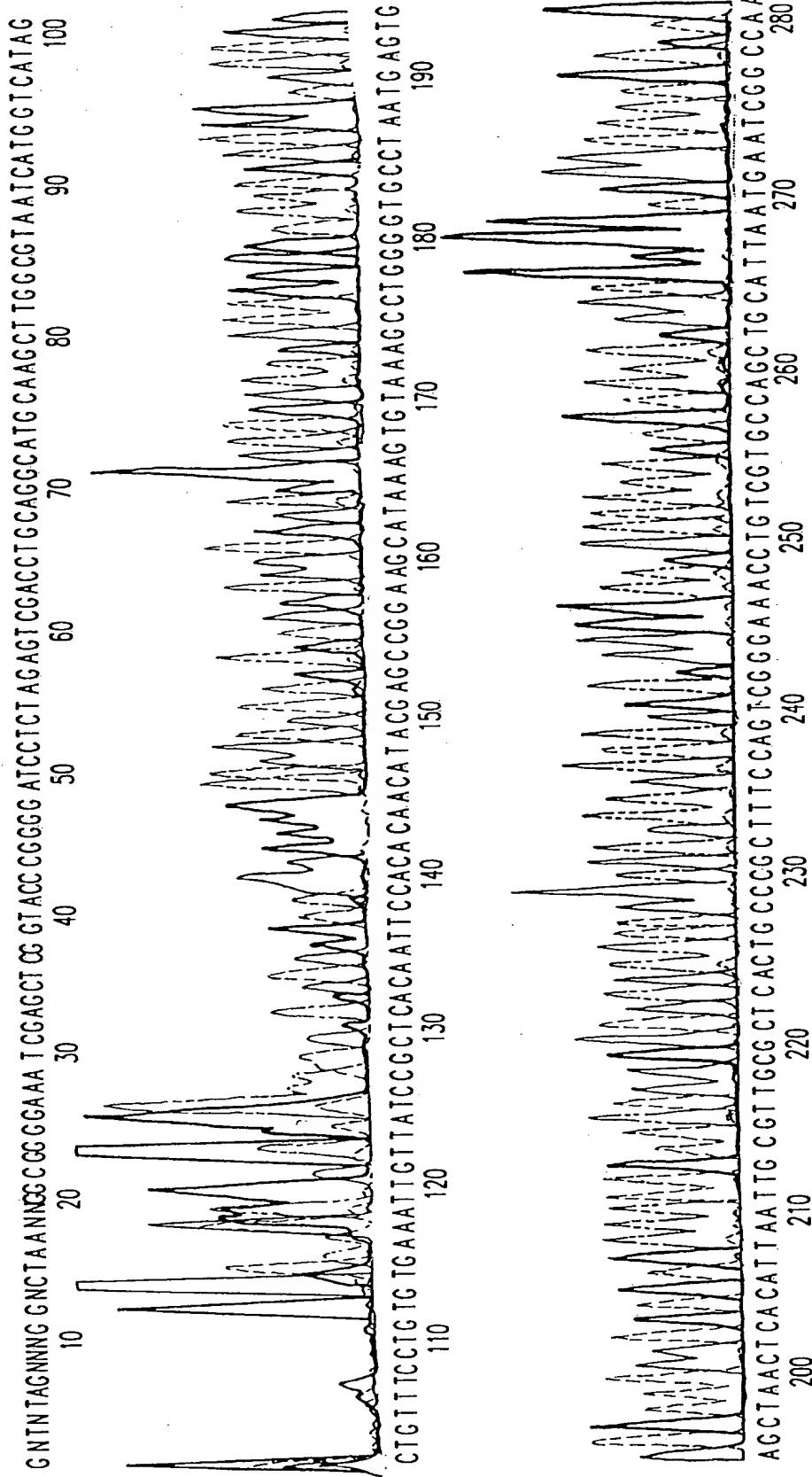
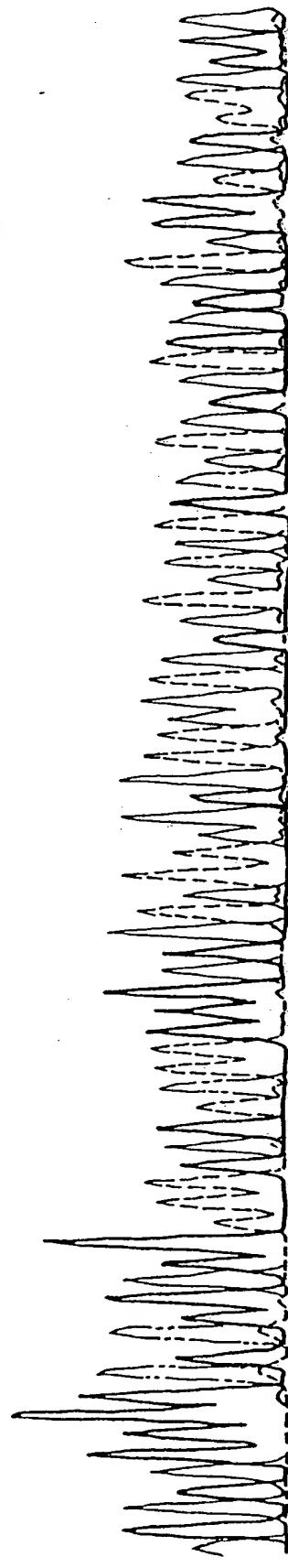
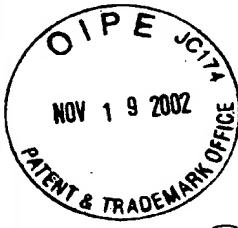


FIG. 17A



1 G C G G C G G G T A T C A G C T C A C T C A A A G G C G G T A A T A C G C T T A T C C A C A G A A A T C A G G G A T A A C G C A G G
370 380 390 400 410 420 430

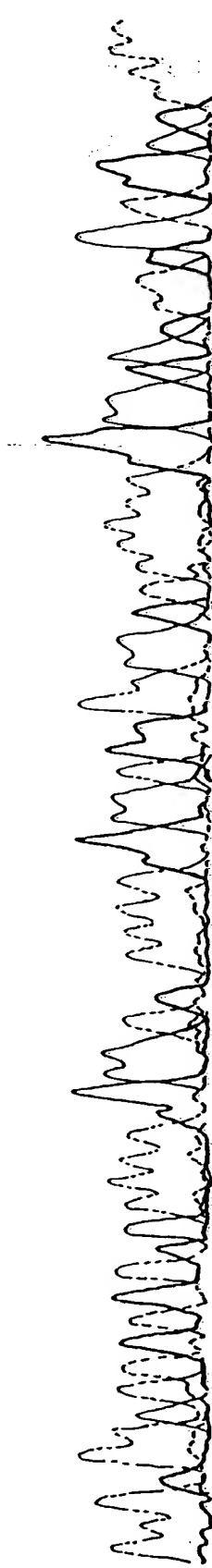
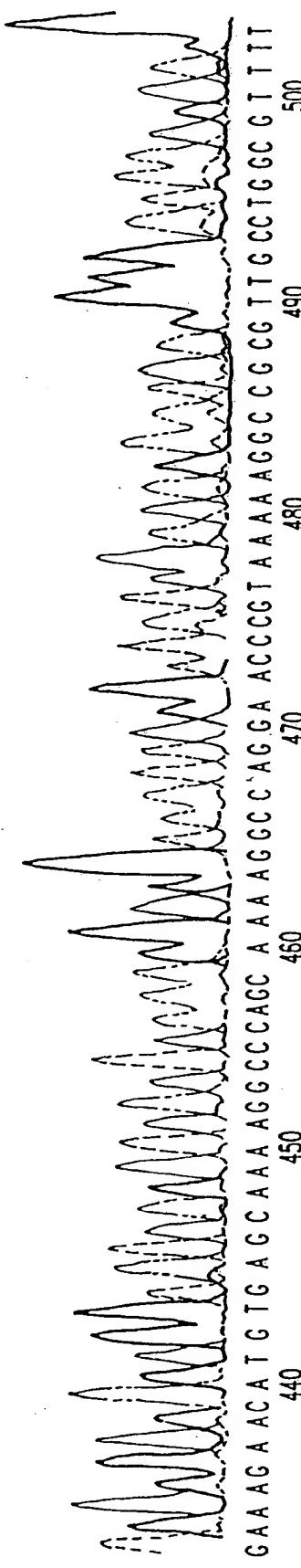


FIG. 17B

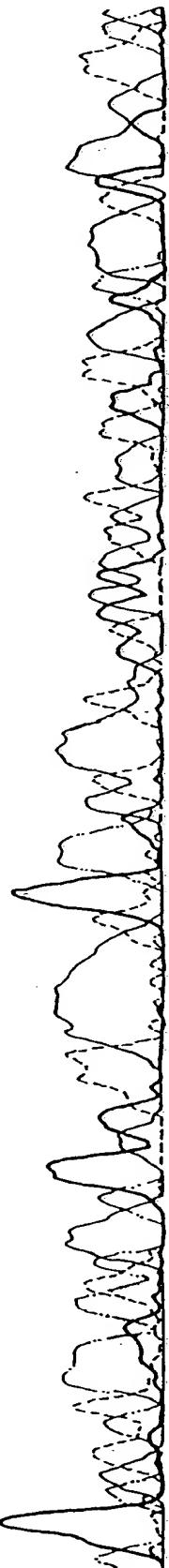


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TCC A T AGG C T C C G C C C C T T G A C G A G C A A T C G A C G C T C A A G A G T G G G G A A C C C C G A C
510 520 530 540 550 560 570



AGGGACCTTAAAGATACCAGGCCGTTTCCCTGGAACTTCCCCCTCCCTGGCTTCCCTGGCTTAC
580 590 600 610 620 630 640 650 660



CNGGATNCC TGT CCGGCCCTTTTNT C CTTTTCNGGNAACGGGCC CTTTTTTT
670 680 690 700 710



FIG. 17C

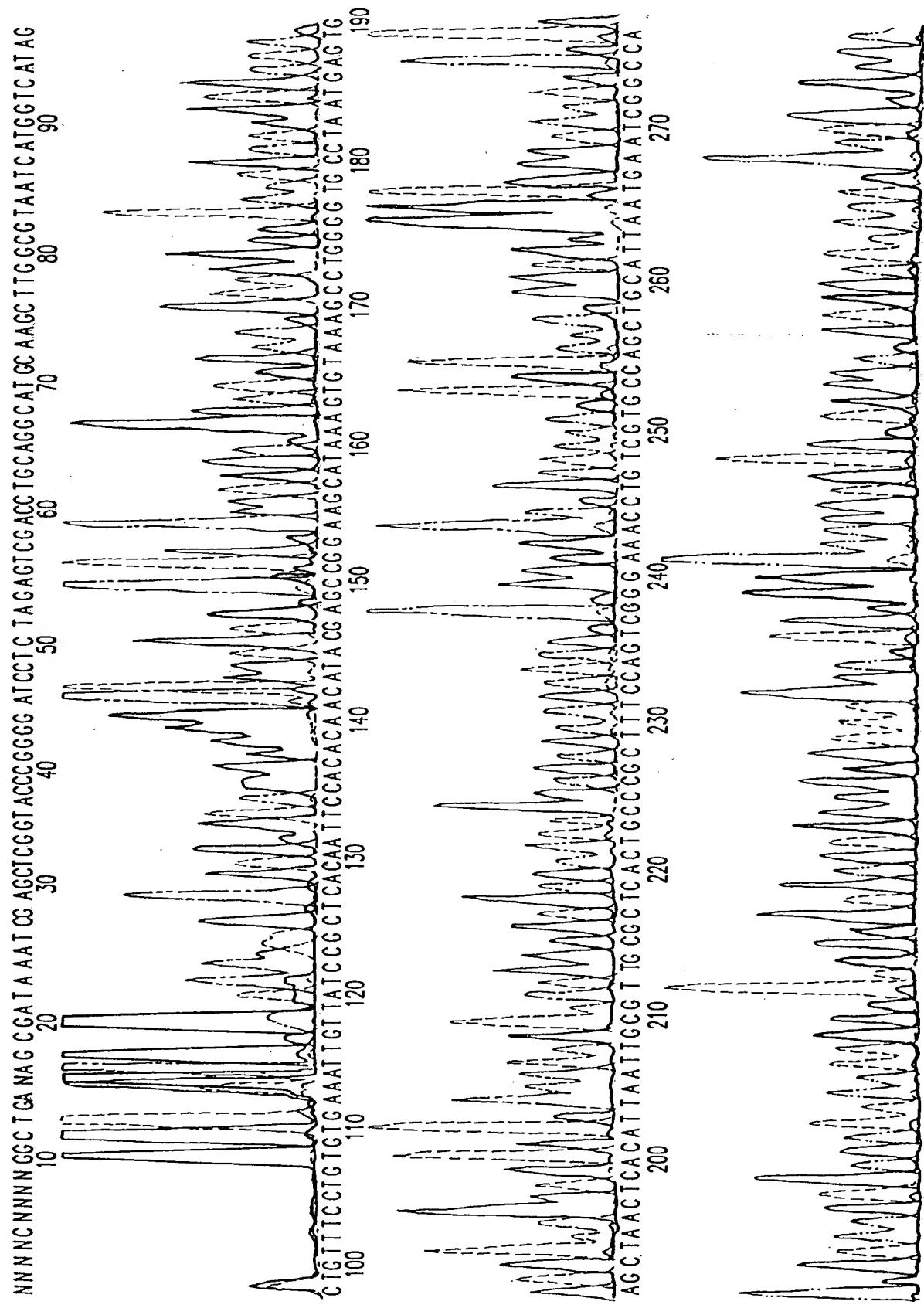


FIG. 17D



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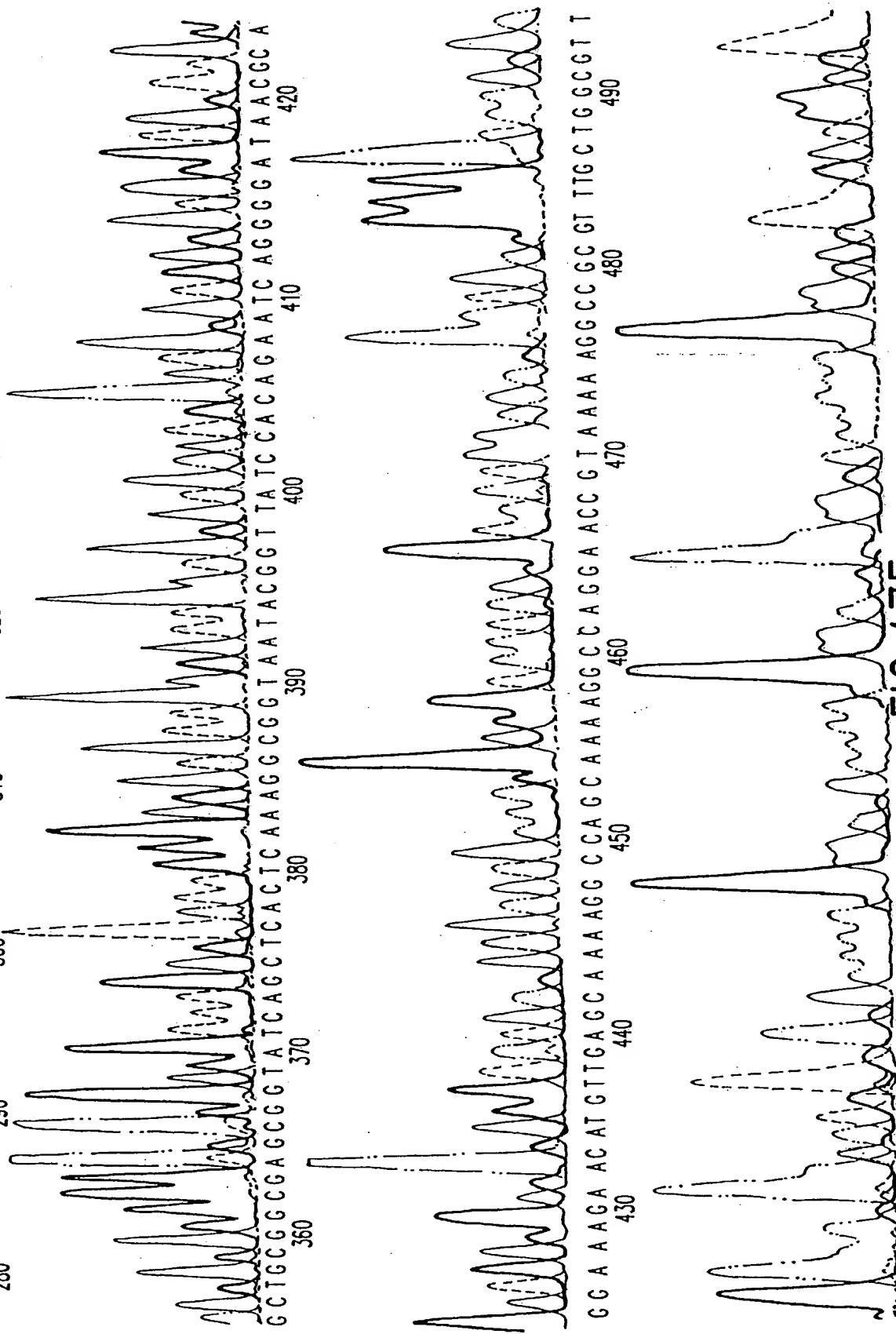


FIG. 17E



TTTCCCATAGGCCTC CGCCCCC CCTTGA CGAACCAT CACAAAATTCAGAAG TTGG CGAAAAACCGG
500 510 520 530 540 550 560

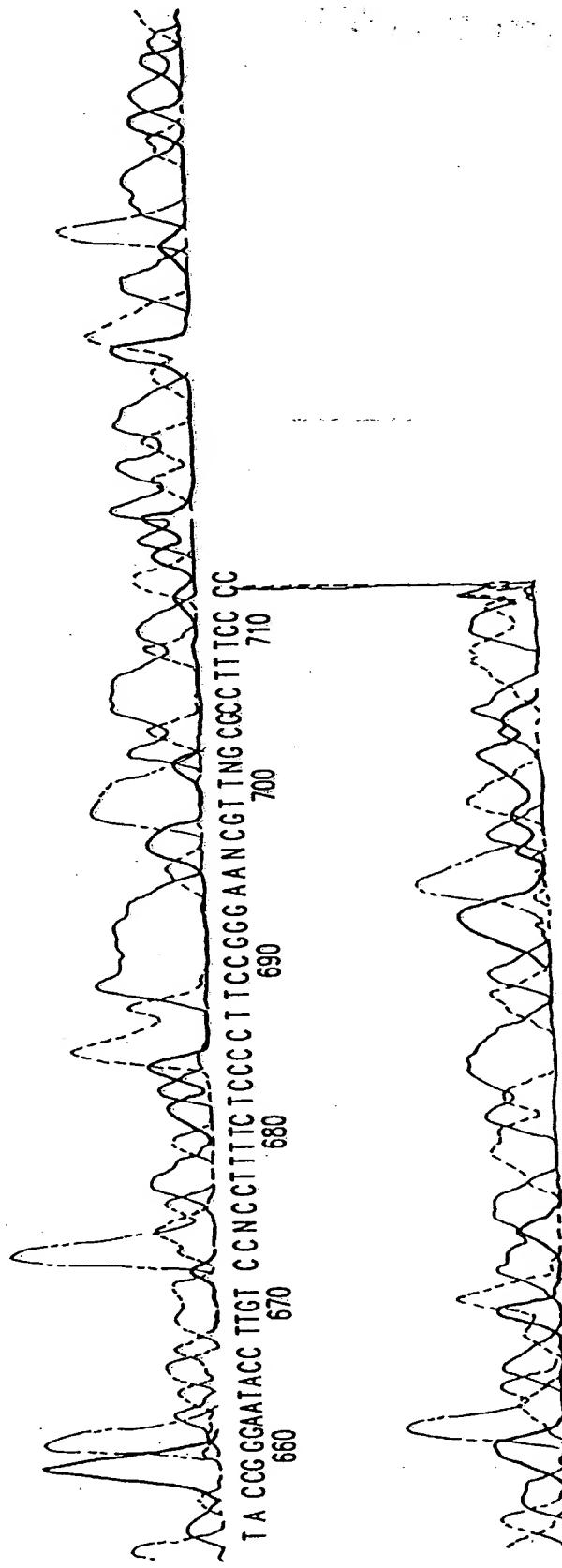
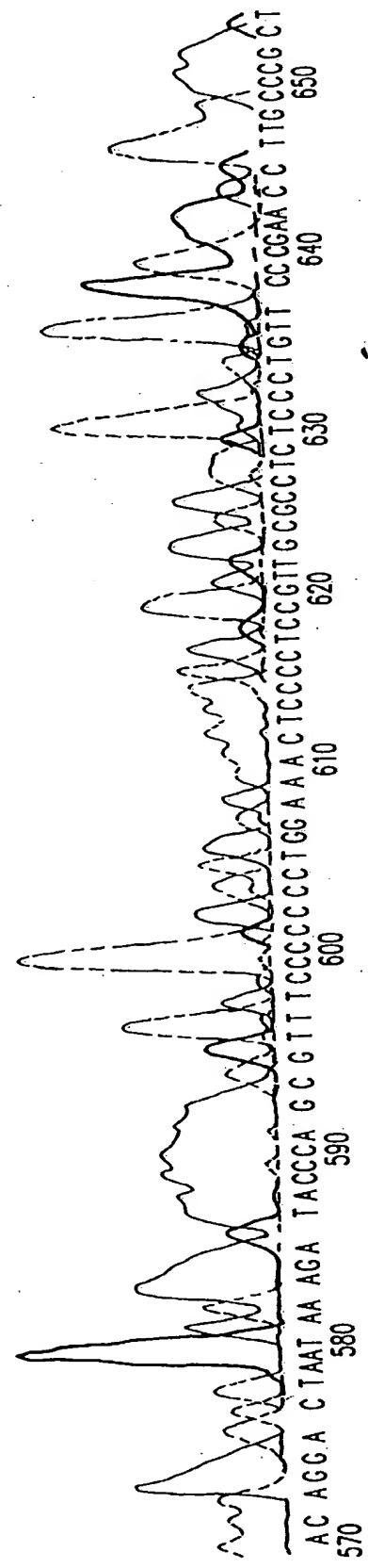


FIG. 17F



TTTCCCCATAGGCCTCGCCCGCCCTTGA CGAACCATCACAAAATCGAACCTCAATTACAGAAC TTGG CGAAAAACCCG
500 510 520 530 540 550 560

ACAGGA CTAAT AA AGA TACCCA GCGTT TCCCCC CCTGGAAAC TCCCCCTCCGTGCGCCTCTCCGTGCGAATCC TTGCCCCCT
570 580 590 600 610 620 630 640 650

TA CGGGATAACC TTGT CCNCCTTTCTCCCCCTTCCGGGAANCGTTGCGACCTTCCGC
660 670 680 690 700 710

FIG. 17F